

Summary of the Second Quarter (April – June 2003) activities for the Douglas County Ground-Water Quality project

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This report is the second quarterly report (for the second year of the project) for the Douglas County Ground-Water Quality Project: *Changes in Ground-Water Quality and Relations to Natural and Anthropogenic Factors, Douglas County, Nevada*. The project started in the second quarter of the FY02 fiscal year (January 2002) and continues until the end of June 2004. The objectives of this study are to: 1) Evaluate existing data for changes in ground-water quality; and 2) Identify natural and anthropogenic factors that are related to, and could cause, these changes.

The project consists of three main tasks: 1) compiling water-quality data and information on potentially related factors; 2) constructing maps showing the distribution of total dissolved solids (TDS) and nitrate in ground water for different periods (e.g. 1980-89, 1990-99); and 3) statistical analysis of changes in ground-water quality and related factors.

The second year of the study will mostly concentrate on Task 3. In the period from April 2003 to June 2003 of the project, we achieved the following results:

1. The Carson Water Subconservancy District requested that the USGS write a summary document of the findings of the study. This was the main task for this quarter, and a six page Water Resources Investigation Report (WRIR) was completed at the end of June and sent to the printer. Publication of the WRIR is expected July 25, 2003.
2. A presentation was given to the Carson Water Subconservancy District Board on the summary WRIR that was written in June.
3. We have begun the process of writing the final WRIR for this project. This report will have all the supporting documentation that could not be included in the summary WRIR. We expect a first draft to be finished by August 2003.

Anticipated work for the July 2003 – September 2003

We will continue writing the final report for the project.